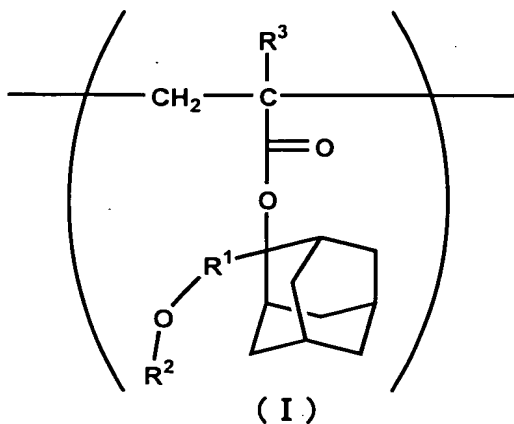


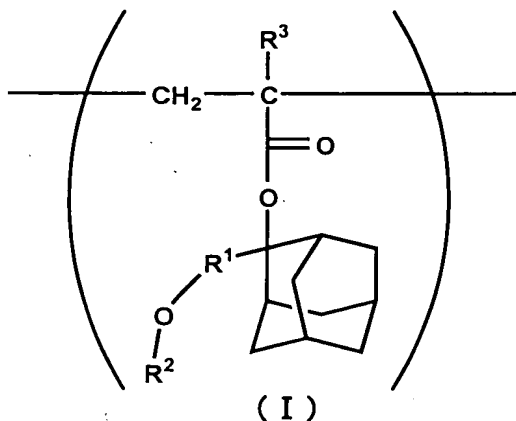
What is claimed is:

1. A resin which comprises a structural unit of the formula (I)



- 5 wherein R^1 represents alkylene having 1 to 4 carbon atoms, R^2 represents alkyl having 1 to 4 carbon atoms, and R^3 represents hydrogen or methyl.

2. A chemical amplification type positive resist composition comprising a resin which comprises a structural unit of the formula (I)

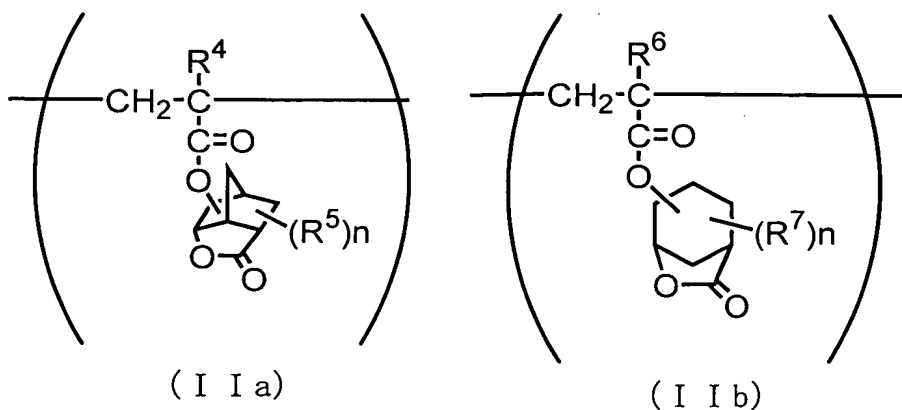


- 10 wherein R^1 represents alkylene having 1 to 4 carbon atoms, R^2 represents alkyl having 1 to 4 carbon atoms, and R^3 represents hydrogen or methyl and which itself is insoluble or poorly soluble in an alkali aqueous solution but

becomes soluble in an alkali aqueous solution by the action of an acid, and an acid generator.

3. The composition according to Claim 2 wherein the content of the structural unit of the formula (I) in all structural units of the resin is from 10 to 80% by mol.

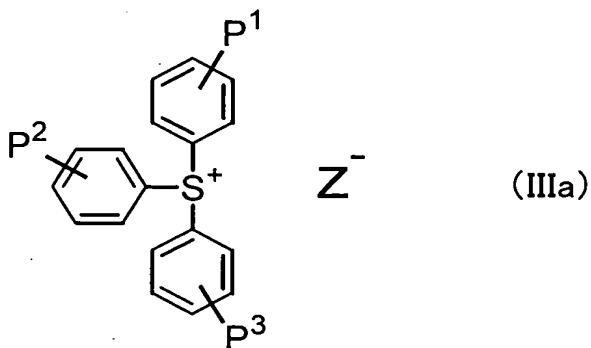
4. The composition according to Claim 2 wherein the resin contains, in addition to the structural unit of the formula (I), further at least one structural unit selected from the group consisting of a structural unit derived from 3-hydroxy-1-adamantyl (meth)acrylate, a structural unit derived from 3,5-dihydroxy-1-adamantyl (meth)acrylate, a structural unit derived from (meth)acryloyloxy- γ -butyrolactone having a lactone ring optionally substituted by alkyl, a structural unit of the formula (IIa) and a structural unit of the following formula (IIb)



15 wherein R^4 and R^6 each independently represent hydrogen or methyl, R^5 and R^7 represent methyl, n represents an integer of 0 to 3.

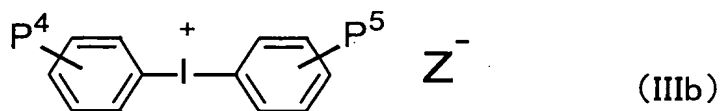
5. The composition according to Claim 2 wherein the resin further contains a structural unit derived from 2-norbornene and a structural unit derived from an aliphatic unsaturated dicarboxylic anhydride.

6. The composition according to Claim 2 wherein the acid generator is the one selected from the group consisting of a sulfonium salt of the formula (IIIa)

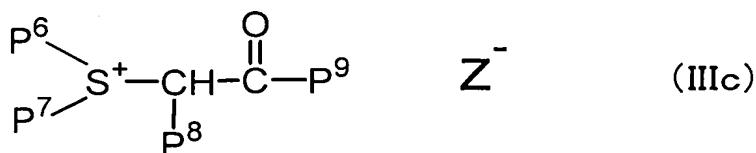


5 wherein P1 to P3 each independently represent hydrogen, hydroxyl, alkyl having 1 to 6 carbon atoms or alkoxy having 1 to 6 carbon atoms, and Z⁻ represents counter anion,

an iodonium salt of the formula (IIIb)



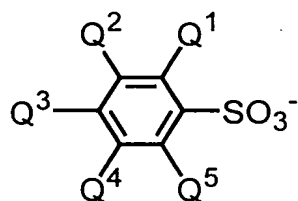
10 wherein P4 and P5 each independently represent hydrogen, hydroxyl, alkyl having 1 to 6 carbon atoms or alkoxy having 1 to 6 carbon atoms, and Z⁻ represents the same meaning as defined above, or a sulfonium salt of the formula (IIIc)



15 wherein P⁶ and P⁷ each independently represent alkyl having 1 to 6 carbon atoms or cycloalkyl having 3 to 10 carbon atoms, or P⁶ and P⁷ bond to form divalent

acyclic hydrocarbon having 3 to 7 carbon atoms which form a ring together with the adjacent S^+ , and at least one $-CH_2-$ in the divalent acyclic hydrocarbon may be substituted by $-CO-$, $-O-$ or $-S-$; P^8 represents hydrogen, P^9 represents alkyl having 1 to 6 carbon atoms, cycloalkyl having 3 to 10 carbon atoms or aromatic ring group optionally substituted, or P^8 and P^9 bond to form 2-oxocycloalkyl together with the adjacent $-CHCO-$, and Z^- represents the same meaning as defined above.

7. The composition according to Claim 6 wherein Z^- is an anion of the formula (IV)



(IV)

wherein Q^1 , Q^2 , Q^3 , Q^4 and Q^5 each independently represent hydrogen, alkyl having 1 to 16 carbon atoms, alkoxy having 1 to 16 carbon atoms, halogen, aryl having 6 to 12 carbon atoms, aralkyl having 7 to 12 carbon atoms, cyano, sulfide, hydroxyl, nitro or a group of the formula (I')

$-COO-X-Cy^1$ (I')

wherein X represents alkylene and at least one $-CH_2-$ in the alkylene may be substituted by $-O-$ or $-S-$, and Cy^1 represents alicyclic hydrocarbon having 3 to 20 carbon atoms.

8. The composition according to Claim 2 wherein the content of the resin is 80 to 99.9 % by weight and the content of the acid generator is 0.1 to 20 % by weight based on the total amount of the resin and the acid generator.

9. The composition according to Claim 2 wherein the composition further comprises basic nitrogen-containing organic compound as a quencher.

10. The composition according to Claim 9 wherein the content of the basic nitrogen-containing organic compound is 0.001 to 1 part by weight per 100
5 parts by weight of the resin.